

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Previously Presented) A continuous glucose monitoring system, comprising:  
a sensor configured to detect one or more glucose levels;  
a transmitter operatively coupled to the sensor, the transmitter configured to receive the detected one or more glucose levels, the transmitter further configured to transmit signals corresponding to the detected one or more glucose levels; and  
a receiver operatively coupled to the transmitter configured to receive transmitted signals corresponding to the detected one or more glucose levels;  
wherein the transmitter is configured to transmit three data points per minute to the receiver, said three data points corresponding to the detected one or more glucose levels.
2. (Original) The system of claim 1 wherein the receiver is operatively coupled to the transmitter via an RF communication link.
3. (Original) The system of claim 1 wherein the transmitter is configured to encode the detected one or more glucose levels received from the sensor to generate encoded signals, the transmitter further configured to transmit the encoded signals to the receiver.
4. (Original) The system of claim 3 wherein the receiver is configured to decode the encoded signals received from the transmitter.
5. (Original) The system of claim 3 wherein the transmitter is configured to transmit the encoded signals to the receiver at a transmission rate of one data point per minute.

6. (Cancelled)

7. (Previously Presented) The system of claim 1 wherein said three data points include a current data point and two previous data points.

8. (Original) The system of claim 7 wherein the current data point corresponds to a current glucose level, and wherein the two previous data points include two consecutive glucose levels, said one of the two consecutive glucose levels immediately preceding the current glucose level.

9. (Original) The system of claim 1 wherein the receiver includes an output unit for outputting the received transmitted signals corresponding to one or more glucose levels.

10. (Original) The system of claim 9 wherein the output unit includes a display unit for displaying data corresponding to said one or more glucose levels.

11. (Original) The system of claim 10 wherein the display unit includes one of a LCD display, a cathode ray tube display, and a plasma display.

12. (Original) The system of claim 10 wherein the displayed data includes one or more of an alphanumeric representation corresponding to the one or more glucose levels, a graphical representation of the one or more glucose levels, and a three-dimensional representation of the one or more glucose levels.

13. (Original) The system of claim 10 wherein the display unit is configured to display the data corresponding to the one or more glucose levels substantially in real time.

14. (Original) The system of claim 9 wherein the output unit includes a speaker for outputting an audio signal corresponding to said one or more glucose levels.
15. (Original) The system of claim 1 wherein the receiver is configured to store an identification information corresponding to the transmitter.
16. (Original) The system of claim 15 wherein the receiver is further configured to perform a time hopping procedure for synchronizing with the transmitter.
17. (Original) The system of claim 1 wherein the receiver is configured to synchronize with the transmitter based on the signal strength detected from the transmitter.
18. (Original) The system of claim 17 wherein the detected signal strength exceeds a preset threshold level.
19. (Original) The system of claim 1 wherein the transmitter is encased in a substantially water tight housing.
20. (Original) The system of claim 1 wherein the transmitter includes a disable switch for temporarily disabling the transmission of the signals.
21. (Original) A continuous glucose monitoring system, comprising:
  - a sensor configured to detect one or more glucose levels;
  - a transmitter operatively coupled to the sensor, the transmitter configured to receive the detected one or more glucose levels, the transmitter further configured to transmit signals corresponding to the detected one or more glucose levels; and

a receiver operatively coupled to the transmitter configured to receive transmitted signals corresponding to the detected one or more glucose levels;

wherein the transmitter is configured to transmit a current data point and at least one previous data point, said current data point and said at least one previous data point corresponding to the detected one or more glucose levels.

22. (Original) The system of claim 21 wherein the receiver is operatively coupled to the transmitter via an RF communication link.

23. (Original) The system of claim 21 wherein the transmitter is configured to encode the detected one or more glucose levels received from the sensor to generate encoded signals, the transmitter further configured to transmit the encoded signals to the receiver.

24. (Original) The system of claim 23 wherein the receiver is configured to decode the encoded signals received from the transmitter.

25. (Original) The system of claim 23 wherein the transmitter is configured to transmit the encoded signals to the receiver at a transmission rate of one data point per minute.

26. (Original) The system of claim 21 wherein the transmitter is configured to transmit said current data point and said at least one previous data points in a single transmission per minute to the receiver.

27. (Original) The system of claim 21 wherein the current data point corresponds to a current glucose level, and wherein said at least one previous data point includes at least two previous data points corresponding respectively to at least two consecutive

glucose levels, said one of the at least two consecutive glucose levels immediately preceding the current glucose level.

28. (Original) The system of claim 21 wherein the receiver includes an output unit for outputting the received transmitted signals corresponding to one or more glucose levels.

29. (Original) The system of claim 28 wherein the output unit includes a display unit for displaying data corresponding to said one or more glucose levels.

30. (Original) The system of claim 29 wherein the display unit includes one of a LCD display, a cathode ray tube display, and a plasma display.

31. (Original) The system of claim 29 wherein the displayed data includes one or more of an alphanumeric representation corresponding to the one or more glucose levels, a graphical representation of the one or more glucose levels, and a three-dimensional representation of the one or more glucose levels.

32. (Original) The system of claim 29 wherein the display unit is configured to display the data corresponding to the one or more glucose levels substantially in real time.

33. (Original) The system of claim 28 wherein the output unit includes a speaker for outputting an audio signal corresponding to said one or more glucose levels.

34. (Original) The system of claim 21 wherein the receiver is configured to store an identification information corresponding to the transmitter.

35. (Original) The system of claim 34 wherein the receiver is further configured to perform a time hopping procedure for synchronizing with the transmitter.

36. (Original) The system of claim 21 wherein the receiver is configured to synchronize with the transmitter based on the signal strength detected from the transmitter.

37. (Original) The system of claim 36 wherein the detected signal strength exceeds a preset threshold level.

38. (Original) The system of claim 1 wherein the transmitter is encased in a substantially water tight housing.

39. (Original) The system of claim 1 wherein the transmitter includes a disable switch for temporarily disabling the transmission of the signals.

40-53. (Cancelled)